

ABSTRACT

A volume hologram recording material is provided that has high sensitivity, good storage stability after recording, and a large interference fringe refractive index difference, the material being used for forming a volume hologram recording film desirable as a data recording system. A volume hologram recording medium comprising same is also provided.

The hologram recording material comprises as constituents a polymer matrix having a three-dimensional crosslinking structure, a polymerizable monomer, and a tertiary amine compound, and the polymer matrix is formed in the presence of the polymerizable monomer by a polymerization reaction that is different from a polymerization reaction of the polymerizable monomer.